International Journal of Systems Science, 1999, volume 30, number 12, pages 1331–1335

Author index (volume 30)

Aaltonen, J., *see* Östermark, R.
Abdel-Aty-Zohdy, H. S., *see* Karam, M.
Abutaleb, A., Sedik, S., Ramadan, M., and Khattab, M., Optimal allocation of investments for a desired economic growth, 135
Agarwal, R. K., *see* Peng Shi
Aguilar-Martin, J., *see* Shmilovici, A.
Aliyu, M. D. S., and Andijani, A. A., Multi-item-multi-plant inventory control of production systems with shortages/backorders, 533
Allen, R., *see* Lea, R. K.
Amat, J., *see* Ridao, P.
Andijani, A. A., *see* Aliyu, M. D. S.
Antoniou, G. E., Two-dimensional B-CFE: circuit and state space realization, 219

Basak, J., and Pal, S. K., Connectionist object recognition: methods and methodologies, 823
Batlle, J., *see* Ridao, P.
Benchaib, A., Tadjine, M., Rachid, A., Sliding mode control of an induction motor with unknown load: application on a digital-signal-processor-based system, 849
Bien, Z. Z., Editorial: Second ASCC Conference, 1
Bien, Z., *see* Park, K.-H.
Billings, S. A., *see* Liu, G. P.
Billings, S. A., *see* Mao, K. Z.
Billings, S. A., *see* Zheng, G. L.
Bing-Fei Wu, Yi-Qiang Hu, and Hung-Hseng Hsu, Adaptive self-quantization in wavelet-based fractal image compression, 541
Boškovic, D. M., and Krstic, M., Global attitude/position regulation for underwater vehicles, 939
Bossley, K. M., Brown, M., and Harris, C. J., Neurofuzzy identification of an autonomous underwater vehicle, 901
Brown, M., *see* Bossley, K. M.
Burg, T., *see* Canbolat, H.
Burns, R. S., *see* Craven, P. J.
Byung Kook Kim, *see* Seong-Woo Kim

Caccia, M., and Veruggio, G., Acoustic motion estimation and guidance for unmanned underwater vehicles, 929
Canbolat, H., Burg, T., Dawson, D., and Nagarkatti, S. P., A near output feedback controller for a general class of robot manipulator systems, 515
Cao, Y. J., and Wu, Q. H., Optimization of control parameters in genetic algorithms: a stochastic approach, 551
Cempel, C., *see* Natke, H. G.
Cha'o-Kuang Chen, *see* Chih-Jer Lin
Chang-Jun Seo, *see* Seong-Woo Kim
Chaowan Yin, *see* Wen Chen
Charlton, G., and Szczerbicki, E., Simulation for performance enhancement of systems: case study of an open-cut coal mine operation, 417
Chaudhuri, K. S., *see* Jalan, A. K.
Chen, B. M., He, J., and Chen, Y., Explicit solvability conditions for the general discrete-time H_∞ almost disturbance decoupling problem with internal stability, 105
Chen, Q. X., and Wan, B. W., A new approach to establish a steady-state model of an industrial process, 1073
Chen, Y., *see* Chen, B. M.
Cheng Shao, *see* Jibril Jiya
Cheng-Liang Chen, and Chung-Tyan Hsieh, Vague controller: a generalization of fuzzy logic controller, 1167
Cheng-Yu Liu, *see* Sou-Chen Lee
Chen-Yuan Kuo, *see* Khalad Gamel Eltohamy
Chiappa, C., *see* Magni, J.-F.
Chieh-Li Chen, *see* Chih-Jer Lin
Chih-Jer Lin, Cha'o-Kuang Chen, and Chieh-Li Chen, Path planning and dynamic control of a redundant robot manipulator for conveyor tracking, 491
Ching-Huan Tseng, *see* Chin-Sung Liu
Chin-Sung Liu and Ching-Huan Tseng, Quadratic optimization method for multilayer neural networks with local error-backpropagation, 889
Cho, K.-H., and Lim, J.-T., Layered optimal supervisory control of discrete event dynamical systems, 395
Choi, S. K., *see* Yang, K. C. H.
Chong Lin, Jianliang Wang, and Soh, C. B., Technical note. Robust structural stability of linear interval descriptor systems, 1325
Chtourou, M., A feedforward neural network behaving as a hierarchical system of automata, 689
Chu, J., *see* Su, H.
Chung, M. J., *see* Doh, T.-Y.
Chung-Tyan Hsieh, *see* Cheng-Liang Chen
Chyi Hwang, *see* Jyh-Haur Hwang
Craven, P. J., Sutton, R., Burns, R. S., and Dai, Y.-M., Multivariable intelligent control strategies for an autonomous underwater vehicle, 965

Dai, Y.-M., *see* Craven, P. J.
DasGupta, A., Position and force control of robotic devices interacting with passive environments through compliance modulation, 697
Dawson, D., *see* Canbolat, H.
Deng, M., Mizumoto, I., Iwai, Z., and Shah, S. L., Model output following control based on CGT approach for plants with time delays, 69
Derradji, D. A., *see* Mort, N.
Dingwei Wang, *see* Yue Wu

Doh, T.-Y., Moon, J.-H., Jin, K. B., and Chung, M. J., Robust iterative learning control with current feedback for uncertain linear systems, 39
Duenyas, I., *see* Van Oyen, M. P.

El Hajjaji, A., *see* Ouladsine, M.
El Moudni, A., *see* Spacek, P.
El-Kébir Boukas, *see* Peng Shi
Encarnação, P., Pascoal, A., and Healey, A., Underwater vehicle design using integrated plant–controller optimization methods, 1057
Espiau, B., *see* Kapellos, K.

Faa-Jeng Lin, *see* Rong-Jong Wai
Foo, S. K., Saratchandran, P., and Sundararajan, N., An evolutionary algorithm for parallel mapping of backpropagation learning on heterogeneous processor networks, 309

Gilholm, K., *see* Watson, G. H.
Gorrec, Y. L., *see* Magni, J.-F.
Grimble, M. J., *see* Katebi, M. R.
Gupta, R., and Kishan, R., On the profit comparison of two stochastic models each pertaining to a two-unit standby system with fixed preparation time and hyper-exponential repair time distributions, 1309
Gupta, R., Kishan, R., and Kumar, P., A two-non-identical-unit parallel system with correlated lifetimes, 1123

Han, J.-Q., *see* Huang, Y.
Harris, C. J., *see* Bossley, K. M.
Hatazaki, H., *see* Kumarawadu, P.
He, J., *see* Chen, B. M.
Healey, A., *see* Encarnação, P.
Hiroaki Mukaidani, Hua Xu and Koichi Mizukami, Recursive approach of H_∞ control problems for singularly perturbed systems under perfect- and imperfect-state measurements, 467
Hong Wang, Model reference adaptive control of the output stochastic distributions for unknown linear stochastic systems, 707
Hong-Hua Zhang, Finite-dimensional control of a flexible space structure: a new view based on input–output space, 675
Hongye Su, and Jian Chu, Stabilization of a class of uncertain time-delay systems containing saturating actuators, 1193
Hu, J. Q., and Rose, E., Generalized predictive control using a neuro-fuzzy model, 117
Hua Xu, *see* Hiroaki Mukaidani
Huang, Y., and Han, J.-Q., A new synthesis method for uncertain systems—the Self-Stable Region approach, 33
Hung-Hseng Hsu, *see* Bing-Fei Wu
Hwang, D.-H., *see* Park, K.-H.

Ishimatsu, T., *see* Ochiai, T.
Iwai, Z., *see* Deng, M.

Jaddu, H., and Shimemura, E., Computational method based on state parametrization for solving constrained nonlinear optimal control problems, 275
Jalan, A. K., and Chaudhuri, K. S., Structural properties of an inventory system with deterioration and trended demand, 627
Jeng, J.-T., *see* Shih, C.-L.
Jha, A. N., *see* Mathew, A. T.
Jia, Q.-W., *see* Xu, J.-X.
Jian Chu, *see* Hongye Su
Jianliang Wang, *see* Chong Lin
Jibril Jiya, Cheng Shao, and Tian-You Chai, Design of an adaptive control of bilinear system with guaranteed stability, 651
Jin, K. B., *see* Doh, T.-Y.
Jin-Long Wang, Threshold-based load balancing policies in heterogeneous distributed systems, 729
Jin-Zhi Wang, and Lin Huang, Linear fractional transformation and disturbance decoupling problem, 563
Jin-Zhi Wang, and Lin Huang, Model reduction problem for some strictly positive real systems, 1319
Jones, J. G., *see* Watson, G. H.
Jourdant, M., *see* Kapellos, K.
Jyh-Haur Hwang, Sun-Yuan Tsay, and Chyi Hwang, A new stability test for discrete systems using lossless-discrete-integrator Routh continued-fraction expansion, 743

Kadirkamanathan, V., *see* Liu, G. P.
Kapellos, K., Simon, D., Jourdant, M., and Espiau, B., Task level specification and formal verification of robotics control systems: state of the art and case study, 1227
Karam, M., Zohdy, M. A., and Abdel-Aty-Zohdy, H. S., Robust recurrent dynamic neural network for solving linear and nonlinear signal representation problems, 261
Karrakchou, J., *see* Lahmidi, F.
Kase, W., A solution of polynomial matrix equations using extended division algorithm and another description of all-stabilizing controllers, 95
Katebi, M. R., and Grimble, M. J., Integrated control, guidance and diagnosis for reconfigurable autonomous underwater vehicle control, 1021
Keller, J. Y., A new strategy for designing a reduced-order Kalman filter, 1161
Khalad Gamel Eltohamy, and Chen-Yuan Kuo, Nonlinear generalized equations of motion for multi-link inverted pendulum systems, 505
Khattab, M., *see* Abutaleb, A.
Kim, B. K., Control latency for task assignment and scheduling of multiprocessor real-time control systems, 123
Kishan, R., *see* Gupta, R.
Kobayashi, H., *see* Mochiyama, H.
Koichi Mizukami, *see* Hiroaki Mukaidani
Kokame, H., *see* Konishi, K.
Konishi, K., and Kokame, H., Robust stability of Lur'e systems with time-varying uncertainties: a linear matrix inequality approach, 3
Krstic, M., *see* Boškovic, D. M.
Kuei-Bin Wu, *see* Tai-Yue Wang
Kumar, P., *see* Gupta, R.

Kumarawadu, P., Nakamura, M., Yoshida, A., and Hatazaki, H., A method for appropriate maintenance scheduling of redundant pump systems in existing thermal power stations based on system availability, 157
Kuo-Kai Shyu, *see* Rong-Jong Wai

Lahmidi, F., Namir, A., Rachik, M., and Karrakchou, J., Stabilizability and compensator design for discrete-time delay systems in Hilbert spaces, 331
Lamba, H., *see* Villanueva, H.
Lastman, G. J., and Sinha, N. K., Robust stability of discrete-time systems, 451
Lea, R. K., Allen, R., and Merry, S. L., A comparative study of control techniques for an underwater fight vehicle, 947
Lee, S.-H., and Lim, J.-T., Robust control in uncertain nonlinear systems with exogenous signals, 19
Lee, T.-H., *see* Xu, J.-X.
Lefebvre, D., Feedback control designs for manufacturing systems modelled by continuous Petri nets, 591
Li, Z., and Soh, C. B., Robust controllability and observability of impulsive interval hybrid dynamic systems, 1109
Liao, C.-J., *see* Yang, W.-H.
Lim, J.-T., *see* Cho, K.-H.
Lim, J.-T., *see* Lee, S.-H.
Lin Huang, *see* Jin-Zhi Wang
Lin, C.-M., *see* Nguang, S. K.
Liu, G. P., Kadirkamanathan, V., and Billings, S. A., Neural network-based variable structure control for nonlinear discrete systems, 1153
Lu, X.-Y., and Spurgeon, S. K., Control of nonlinear non-minimum phase systems using dynamic sliding mode, 183
Lucas, J., *see* Smith, P. J.
Lyshevski, S. E., Robust control of nonlinear continuous-time systems with parameter uncertainties and input bounds, 247

Magni, J.-F., Gorrec, Y. L., and Chiappa, C., An observer based multimodel control design approach, 61
Manier, M.-A., *see* Spacek, P.
Mao, K. Z., Billings, S. A., and Zhu, Q. M., A regularized rational model estimation algorithm, 455
Mathew, A. T., and Jha, A. N., A robust recursive method for parameter estimation of linear continuous-time systems using Laguerre polynomials, 343
Matsui, R., *see* Ochiai, T.
Medel Juarez, J. J., *see* Poznyak, A. S.
Merry, S. L., *see* Lea, R. K.
Mizukami, K., *see* Zhang, S.
Mizumoto, I., *see* Deng, M.
Mochiyama, H., Shimemura, E., and Kobayashi, H., Control of manipulators with hyper degrees of freedom: shape tracking using only joint angle information, 77
Mohapatra, P. K. J., *see* Sahoo, B. K.
Moon, J.-H., *see* Doh, T.-Y.
Mort, N., and Derradji, D. A., Control reconfiguration in submersible vehicles using artificial neural networks, 989

Nagarkatti, S. P., *see* Canbolat, H.
Nakamura, M., *see* Kumarawadu, P.
Namir, A., *see* Lahmidi, F.
Natke, H. G., and Cempel, C., Holistic dynamics and subsystem modelling: principles, 283
Nguang, S. K., and Lin, C.-M., Robust $\mathscr{H}_\infty$ filtering: a model matching approach, 1143
Ni-Bin Chang, Yeh, S. C., and Wu, G. C., Stability analysis of grey compromise programming and its application to watershed land-use planning, 571

Ochiai, T., Ishimatsu, T., Takami, O., and Matsui, R., Computer input device for a physically disabled person using head movement, 131
Östermark, R., and Aaltonen, J., Comparing the causality patterns between some Scandinavian stock returns and global return factors, 611
Östermark, R., Structural modelling of global capital asset pricing, 601
Ouladsine, M., El Hajjaji, A., and Rachid, A., Identification of interconnected multiple–input multiple–output systems: application to a multiple–input multiple–output thermal process, 779

Pal, S. K., *see* Basak, J.
Park, K.-H., Bien, Z., and Hwang, D.-H., A study on the robustness of a PID-type iterative learning controller against initial state error, 49
Pascoal, A., *see* Encarnação, P.
Peng Shi, El-Kébir Boukas, and Agarwal, R. K., Robust control for Markovian jumping discrete-time systems, 787
Poznyak, A. S., and Medel Juarez, J. J., Matrix forgetting factor, 165
Poznyak, A. S., and Medel Juarez, J. J., Matrix forgetting factor with adaptation, 865

Rachid, A., *see* Benchaib, A.
Rachid, A., *see* Ouladsine, M.
Rachik, M., *see* Lahmidi, F.
Ramadan, M., *see* Abutaleb, A.
Ridao, P., Batlle, J., Amat, J., and Roberts, G. N., Recent trends in control architectures for autonomous underwater vehicles, 1033
Roberts, G. N., *see* Ridao, P.
Roberts, G. N., *see* Sutton, R.
Rong-Jong Wai, Faa-Jeng Lin, and Kuo-Kai Shyu, A toggle mechanism servo system with variable-structure model-following control, 1213
Rose, E., *see* Hu, J. Q.

Sahoo, B. K., Mohapatra, P. K. J., and Trivedi, M. L., A comparative application of data envelopment analysis and frontier translog production function for estimating returns to scale and efficiencies, 379
Saratchandran, P., *see* Foo, S. K.

Schaffner, J., and Zeitz, M., Decentral nonlinear observer design using a block-triangular form, 1131
Sebe, N., A design of controllers for simultaneous H_∞ control problem, 25
Sedik, S., *see* Abutaleb, A.
Seong-Woo Kim, Chang-Jun Seo, and Byung Kook Kim, Robust and reliable $\mathscr{H}_\infty$ controllers for discrete-time systems with parameter uncertainty and actuator failure, 1249
Shah, N. H., *see* Vasudha Warrier, T.
Shah, S. L., *see* Deng, M.
Shigemasa Takai, and Yoshinori Ito, Supervisory control of timed event graphs with partial specifications, 1187
Shih, C.-L., and Jeng, J.-T., Stabilization of non-holonomic chained systems by gain scheduling, 441
Shimemura, E., *see* Jaddu, H.
Shimemura, E., *see* Mochiyama, H.
Shmilovici, A., and Aguilar-Martin, J., Adaptive matching pursuit of NARX models with spline basis functions, 879
Simon, D., *see* Kapellos, K.
Sinha, N. K., *see* Lastman, G. J.
Smith, J. S., *see* Smith, P. J.
Smith, P. J., Smith, J. S., and Lucas, J., Localization of a UUV within structures using range data and world modelling techniques, 915
Soh, C. B., Robust stability of perturbed periodic hybrid systems, 811
Soh, C. B., *see* Chong Lin
Soh, C. B., *see* Li, Z.
Sotirov, L. N., An algorithm for synthesis of discrete reduced order optimal singular adaptive observers, 665
Sou-Chen Lee, and Cheng-Yu Liu, An innovative estimation method with own-ship estimator for an all-accelerometer-type inertial navigation system, 1259
Spacek, P., Manier, M.-A., and El Moudni, A., Control of an electroplating line in the max and min algebras, 759
Spurgeon, S. K., *see* Lu, X.-Y.
Su, H., and Chu, J., Robust H^∞ control for linear time-varying uncertain time-delay systems via dynamic output feedback, 1093
Sundararajan, N., *see* Foo, S. K.
Sun-Yuan Tsay, *see* Jyh-Haur Hwang
Sutton, R., and Roberts, G. N., Editorial: Unmanned underwater vehicles, 899
Sutton, R., *see* Craven, P. J.
Suzuki, M., Suboptimal robot motion for inexperienced situations through intelligent composite motion control: method of knowledge array, 87
Szczerbicki, E., *see* Charlton, G.

Tadjine, M., *see* Benchaib, A.
Tai-Yue Wang, and Kuei-Bin Wu, An efficient configuration generation mechanism to solve job shop scheduling problems by the simulated annealing algorithm, 527
Takai, M., and Ura, T., Development of a system to diagnose autonomous underwater vehicles, 981
Takami, O., *see* Ochiai, T.
Tanaka, Y., A trust region method for semi-infinite programming problems, 199
Tian-You Chai, *see* Jibril Jiya
Tohru Ozaki, *see* Zhaoyun Shi
Trivedi, M. L., *see* Sahoo, B. K.
Tsai, C.-Y., *see* Van Oyen, M. P.

Ura, T., *see* Takai, M.

Van Oyen, M. P., Duenyas, I., and Tsai, C.-Y., Stochastic sequencing with job families, set-up times, and due dates, 175
Vasudha Warrier, T., and Shah, N. H., A lot-size model with partial backlogging when the amount received is uncertain for deteriorating items, 205
Veruggio, G., *see* Caccia, M.
Villanueva, H., and Lamba, H., Process optimization in a supervision support system, 355

Wan, B. W., *see* Chen, Q. X.
Wang, J.-Q., and Wend, H.-D., Robust decentralized control of robot manipulators, 323
Wanyi Chen, Comment on 'Simple criteria for stability of neutral systems with multiple delays', 1247
Watson, G. H., Gilholm, K., and Jones, J. G., A wavelet-based method for finding inputs of given energy which maximize the outputs of nonlinear systems, 1297
Wen Chen, Yengchai Soh, and Chaowan Yin, Iterative learning control for constrained nonlinear systems, 659
Wend, H.-D., *see* Wang, J.-Q.
Wen-Liang Chen, *see* Yao-Yu Hsu
Wu, G. C., *see* Ni-Bin Chang
Wu, H., Robust output feedback controllers for dynamical systems including delayed perturbations, 211
Wu, Q. H., *see* Cao, Y. J.

Xu, B., Decay estimates for retarded dynamic systems, 427
Xu, C., Rational behaviour and cooperation degree in competitive situations, 369
Xu, J.-X., Lee, T.-H., and Jia, Q.-W., Design and analysis of a new adaptive robust control scheme for a class of nonlinear uncertain systems, 239

Yang, K. C. H., Yuh, J., and Choi, S. K., Fault-tolerant system design of an autonomous underwater vehicle—ODIN: an experimental study, 1011
Yang, W.-H., and Liao, C.-J., Survey of scheduling research involving setup times, 143
Yao-Yu Hsu, and Wen-Liang Chen, Self-learning of a fuzzy controller using cell mapping in the sense of a quadratic optimum, 1267
Yeh Lam and Yuan Lin Zhang, Analysis of repairable consecutive-2-out-of-*n*: *F* systems with Markov dependence, 799
Yeh Lam, and Yuan Lin Zhang, Analysis of repairable consecutive-2-out-of-*n*: F systems with Markov dependence, 1285
Yeh, S. C., *see* Ni-Bin Chang
Yengchai Soh, *see* Wen Chen

Yi-Qiang Hu, *see* Bing-Fei Wu
Yi-Ru Chen, *see* Yo-Ping Huang
Yong Li, Control of a nonlinear hybrid system arising in flexible spacecraft, 635
Yongqing Liu, *see* Yuanqing Li
Yo-Ping Huang and Yi-Ru Chen, Preprocessing data patterns to simplify the identification of fuzzy models, 479
Yoshida, A., *see* Kumarawadu, P.
Yoshinori Ito, *see* Shigemasa Takai
Yoshiyasu Tamura, *see* Zhaoyun Shi
Yuan Lin Zhang, *see* Yeh Lam
Yuanqing Li, and Yongqing Liu, Bifurcation on stability of singular systems with delay, 643
Yue Wu, and Dingwei Wang, Optimal single-machine scheduling about a common due window with earliness/tardiness and additional penalties, 1279
Yuh, J., *see* Yang, K. C. H.
Yu-Mei Liu, *see* Zi-Li Deng
Zeitz, M., *see* Schaffner, J.
Zhang, S., and Mizukami, K., Robust stabilization conditions of discrete-time large-scale uncertain systems, 11
Zhang, Y. M., and Zhu, Q. M., Selecting optimal ARMA order by a minimum spectrum distance criterion, 223
Zhaoyun Shi, Yoshiyasu Tamura, and Tohru Ozaki, Nonlinear time series modelling with the radial basis function-based state-dependent autoregressive model, 717
Zheng, G. L., and Billings, S. A., An enhanced sequential fuzzy clustering algorithm, 295
Zheng, W. X., Cubic constraint approximation based adaptive algorithms for envelope-constrained filtering, 407
Zhu, Q. M., *see* Mao, K. Z.
Zhu, Q. M., *see* Zhang, Y. M.
Zi-Li Deng, and Yu-Mei Liu, Descriptor Kalman estimators, 1205
Zohdy, M. A., *see* Karam, M.